Lingjuan Hong, Ph.D.

Birth Day: Jan 2, 1987; **Birth Place:** Zhejiang, China

Current Position: Postdoctoral Fellow, Assistant Researcher in College of Pharmaceutical Sciences, Zhejiang University

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Training and Education

Postdoctoral Fellow. Pharmacology (6/2015-Now)

College of Pharmaceutical Sciences, Zhejiang University, Hangzhou, China

Areas of Research: 1) Identify the role of GPR124 in pericyte polarization and migration; **2)** Gene editing and regulation using CRISPR/Cas9 system to elucidate cell polarization and migration in mouse brain.

Advisor: Prof. Feng Han

Ph.D. Biochemistry and Molecular Biology (9/2010—6/2012), Pharmacology (7/2012—6/2015)

College of Life Sciences/College of Pharmaceutical Sciences, Zhejiang University, Hangzhou, China

Areas of Research: 1) Investigating the melatonin receptor signaling of autism disease both *in vivo* and *in vitro*; **2)** Elucidating the molecular mechanisms responsible for neurovascular injury during septic encephalopathy; **3)** Screening of H_3 receptor antagonists by luciferase reporter assays.

Advisor: Prof. Feng Han and Prof. Naiming Zhou

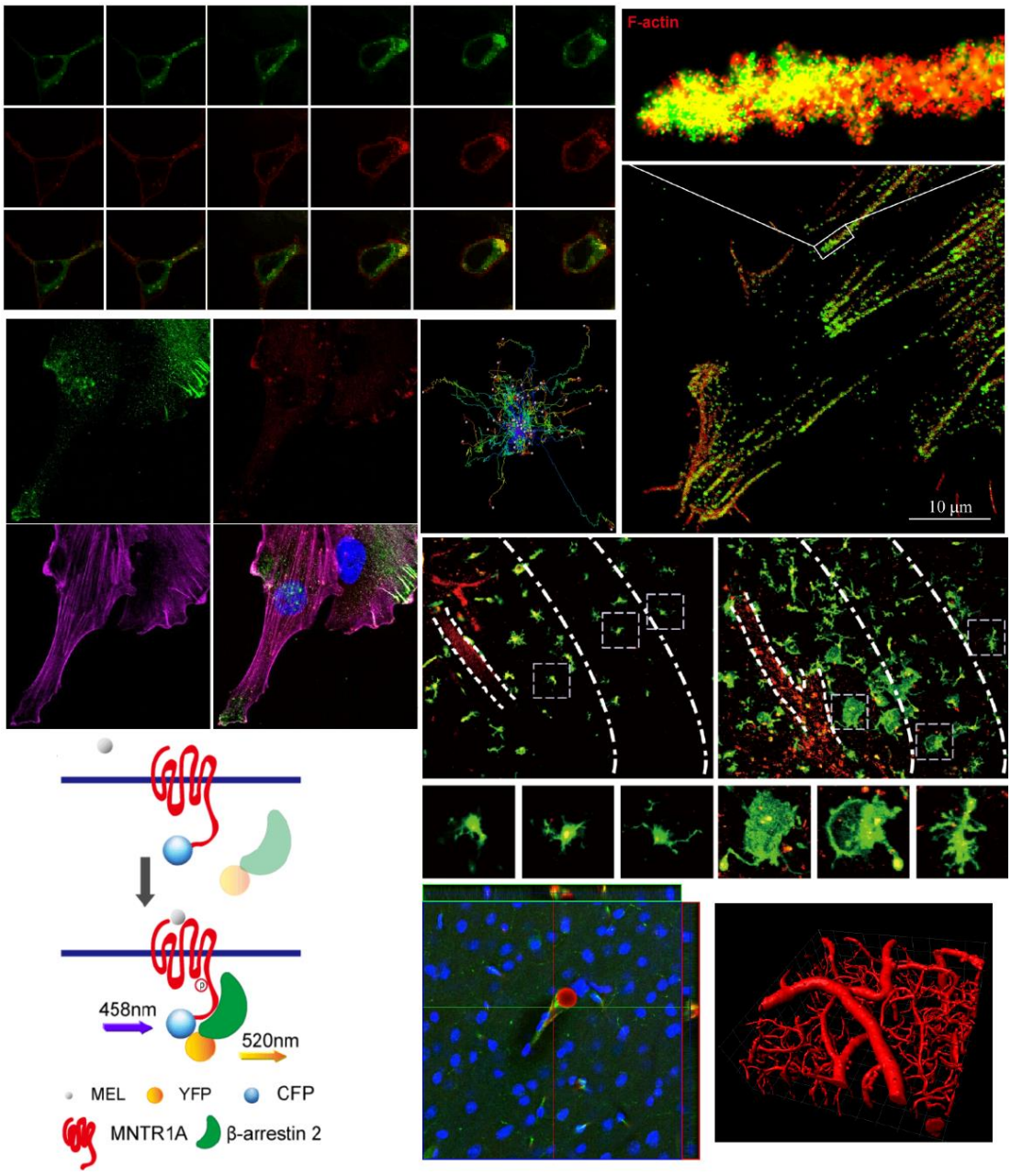
B.S. Biotechnology (9/2006-6/2010)

College of Biological & Environmental Sciences, Zhejiang Wanli University, Ningbo, China

Research skills

Cell biology skill: Cell culture, 3D stochastic optical reconstruction microscopy (STORM), Immunohistochemistry, Time-lapse analysis of living cell migration or other phenomena, Fluorescence resonance energy transfer (FRET), Flow cytometry analyses, Confocol microscope (Zeiss, Nikon).

Animal experiment skill: In vivo two-photon imaging, Mouse microsphere embolism model, Isolation endothelial cells from mouse brain, islets isolation and purification in mouse.



Molecular biology skill: plasmid construction, PCR, RT-PCR, fusion PCR, inverse PCR, quantitative RT-PCR, DNA/RNA/protein preparation, western blotting, etc.

Computer skills: Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Adobe Photoshop, Adobe illustrator, Imaris, ImageJ, GraphPad Prism, and bio-softwares.

Honors/Scholarships

2016 Award of excellence of 17th National Neuropsychopharmacology Symposium

2016 Hao Sen Scholarship

2015 First prize of Research Image Contest of Zhejiang University

2015 Award of excellence of 14th National Biochemical and Molecular Pharmacology

2015 Outstanding Graduate Student Scholarship

2015 Young Investigator Award of Zhejiang Society of Toxicology

2013 Best Paper Award of 6th Chinese Society of Toxicology

Peer-reviewed publications

(1) **Hong LJ**, Jiang Q, Long S, Wang H, Zhang LD, Tian Y, Wang CK, Cao JJ, Tao RR, Huang JY, Liao MH, Lu YM, Fukunaga K, Zhou NM, Han F*. Valproic Acid Influences MTNR1A Intracellular Trafficking and Signaling in a β-Arrestin 2-Dependent Manner. ***Mol Neurobiol***, 2016, 53(2): 1237-1246**(IF: 5.137)**

(2) Wang H#, **Hong LJ#**(Co-first author), Huang JY#, Jiang Q, Tao RR, Tan C, Lu NN, Wang CK, Ahmed MM, Lu YM, Liu ZR, Shi WX, Lai EY, Wilcox CS, Han F*. P2RX7 sensitizes Mac-1/ICAM-1-dependent leukocyte-endothelial adhesion and promotes neurovascular injury during septic encephalopathy. ***Cell Res***, 2015, 25(6):674-690**(IF: 12.413)**

(3) Li X, Tao RR, **Hong LJ**, Cheng J, Jiang Q, Lu YM, Liao MH, Ye WF, Lu NN, Han F*, Hu YZ*, Hu YH*. Visualizing Peroxynitrite Fluxes in Endothelial Cells Reveals the Dynamic Progression of Brain Vascular Injury. ***J Am Chem Soc***, 2015, 137(38):12296-12303**(IF: 12.113)**

(4) Tao RR, Wang H, **Hong LJ**, Huang JY, Lu YM, Liao MH, Ye WF, Lu NN, Zhu DY, HuangQ, Fukunaga K, Lou YJ, Shoji I, Wilcox CS, Lai EY, Han F*. Nitrosative stress induces peroxiredoxin 1 ubiquitination during ischemic insult via E6AP activation in endothelial cells both in vitro and in vivo. ***Antioxid Redox Signal***, 2014, 21(1):1-16**(IF: 7.407)**

(5) Tang L, Zhao L, **Hong L**, Yang F, Sheng R, Chen J, Shi Y, Zhou N, Hu Y*. Design and synthesis of novel 3-substituted-indole derivatives as selective H3 receptor antagonists and potent free radical scavengers. ***Bioorg Med Chem***, 2013,

21(19):5936-5944**(IF: 2.793)**

(6) Sheng R*, Tang L, Jiang L, **Hong L**, Shi Y, Zhou N, Hu YZ*. Novel phenyl-3-hydroxy-4-pyridinone derivatives as Multifunctional Agents for the therapy of Alzheimer's Disease. ***ACS Chem Neurosci***, 2016, 7(1):69-81**(IF: 4.362)**

(7) Tian Y, Yabuki Y, Moriguchi S, Fukunaga K, Mao PJ, **Hong LJ**, Lu YM, Wang R, Ahmed MM, Liao MH, Huang JY, Zhang RT, Zhou TY, Long S, Han F*. Melatonin reverses the decreases in hippocampal protein serine/threonine kinases observed in an animal model of autism, ***J Pineal Res***, 2014, 56(1):1-11**(IF: 9.6)**

(8) Lu YM, Huang JY, Wang H, Lou XF, Liao MH, **Hong LJ**, Tao RR, Ahmed MM, Shan CL, Wang XL, Fukunaga K, Du YZ, Han F*. Targeted therapy of brain ischaemia using Fas ligand antibody conjugated PEG-lipid nanoparticles. ***Biomaterials***, 2014, 35(1):530-537**(IF: 8.557)**

(9) Huang JY, Lu YM, Wang H, Liu J, Liao MH, **Hong LJ**, Tao RR, Ahmed MM, Liu P, Liu SS, Fukunaga K, Du YZ, Han F*. The effect of lipid nanoparticle PEGylation on neuroinflammatory response in mouse brain. ***Biomaterials***, 2013, 34(32):7960-7970**(IF: 8.557)**

(10) Lu NN, Liu J, Tian Y, Liao MH, Wang H, Lu YM, Tao RR, **Hong LJ**, Liu SS, Fukunaga K, Du YZ, Han F*. Atg5 deficit exaggerates the lysosome formation and cathepsin B activation in mice brain after lipid nanoparticles injection. ***Nanomedicine***, 2014, 10(8):1843-1852**(IF: 5.413)**

(11) Huang JY, Li LT, Wang H, Liu SS, Lu YM, Liao MH, Tao RR, **Hong LJ**, Fukunaga K, Chen Z, Wilcox CS, Lai EY, Han F*. In vivo two-photon fluorescence microscopy reveals disturbed cerebral capillary blood flow and increased susceptibility to ischemic insults in diabetic mice. ***CNS Neurosci Ther***, 2014, 20(9):816-822**(IF: 3.931)**

References

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